

Michigan Department of Treasury Bureau of Investments



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Director of Investments – Private Markets Chief Operating Officer March 22, 2012



Today's Topics:

- The Bureau of Investments
- MPSERS High Level Plan Overview
- MPSERS Asset Allocation
- Stock and Bond Markets 2011 Review
- MPSERS Returns



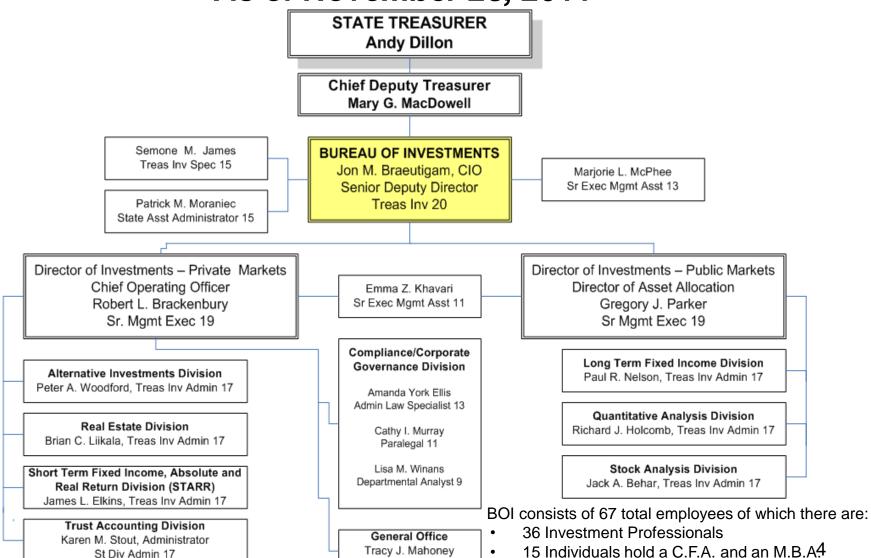
BOI ~ Mission Statement

 The Bureau of Investments provides quality investment management services, professional expertise, and advice to the State Treasurer as fiduciary of the State of Michigan Retirement Systems and Michigan boards and agencies. The Bureau strives to provide consistent and cost-effective management of funds to achieve competitive investment returns that meet objectives within acceptable level of risk for the benefit of employees, retirees, and citizens of the State of Michigan.



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Bureau of Investments (BOI) As of November 28, 2011



Gen Ofc Asst 7

17 Hold a C.F.A. - 21 Hold an M.B.A. In total over 50% hold an M.B.A. or C.F.A. or both.



BOI Investment and Cash Position

As of December 31, 2011

AS OF December 31, 20	
TOTAL RETIREMENT RELATED - DB and DC Plans	\$52,973,178,652
OTHER MAJOR FUNDS	
Haald Oans Assessed	-
Health Care Account	* 242.740.044
MPSERS Health Care Account	\$342,749,841
MSERS Health Care Account	\$0
Family Independence Agency Children's Trust	\$22.42F F70
	\$23,425,570
Lottery State Letters	444 676 060
State Lottery	444,676,969
Military & Veterans Affairs Veterans' Trust	E2 404 994
	52,104,884
Natural Resources and Environment Game and Fish Lifetime License Trust	24 402 964
Game and Fish Protection Trust	24,493,861 201,458,990
Natural Resources Trust	703,208,325
Nongame Fish and Wildlife Trust	6,916,361
State Park Endowment	182,981,550
Multiple Agencies	182,981,550
Gifts, Bequests, and Deposits Fund	17,418,123
Children With Special Needs	21,207,866
Transportation	21,207,000
Mackinac Bridge Authority	58,137,964
Treasury	30,137,304
MESP (TIAA-CREF - 529 Plan)	2,686,656,849
MI 529 Advisor Plan	96,963,008
Michigan Higher Education Assist. Authority	1,502,034
MET I	143,878,196
MET II	603,416,829
SUBTOTAL FOR TRUST AND AGENCY FUNDS	\$5,611,197,218
COMMON CASH	
State Treasurer's Common Cash	\$1,664,050,205
TOTAL UNDER MANAGEMENT	\$60,248,426,076



Plan Membership Summary

As of September 30, 2011

MEMBER TYPE	MPSERS
Retirees & Benef. Receiving Benefits	192,435
Current Employees Vested	114,680
Current Employees Non-Vested	121,980
Inactive Employees Entitled To, But Not Yet Receiving Benefits	15,090
TOTAL MPSERS MEMBERS	444,185



Plan Membership Ratio

As of September 30, 2010

Ratio of Active/Retiree	MPSERS
Year 2010	1.29:1
Year 2009	1.56:1
Year 2008	1.67:1
Year 2007	1.82:1
Year 2006	1.94:1



MPSERS Funded Ratio

Years Ending September

				Funded	
	Market	Actuarial	Actuarial	Ratio Based	
	Value of	Value of	Accrued	on Actuarial	
Year	Assets	Assets	Liability	Value	
2010	\$35,855	\$43,294	\$60,927	71.1%	
2009	\$34,498	\$44,703	\$56,685	78.9%	
2008	\$39,066	\$45,667	\$54,608	83.6%	
2007	\$48,363	\$45,335	\$51,107	88.7%	
2006	\$42,995	\$39,893	\$49,136	81.2%	
2005	\$39,216	\$38,211	\$48,206	79.3%	
2004	\$36,289	\$38,784	\$46,317	83.7%	
1983	\$6,285	\$6,035	\$8,434	71.6%	
MP	MPSERS Estimated Market Value Funded Ratio				
12/31/2011	\$37,665		\$60,927	61.8%	

(\$ in Millions)

8

Source: Pension Plans Component Unit Financial Reports and Actuarial Valuations



SMRS Market Value by Plan

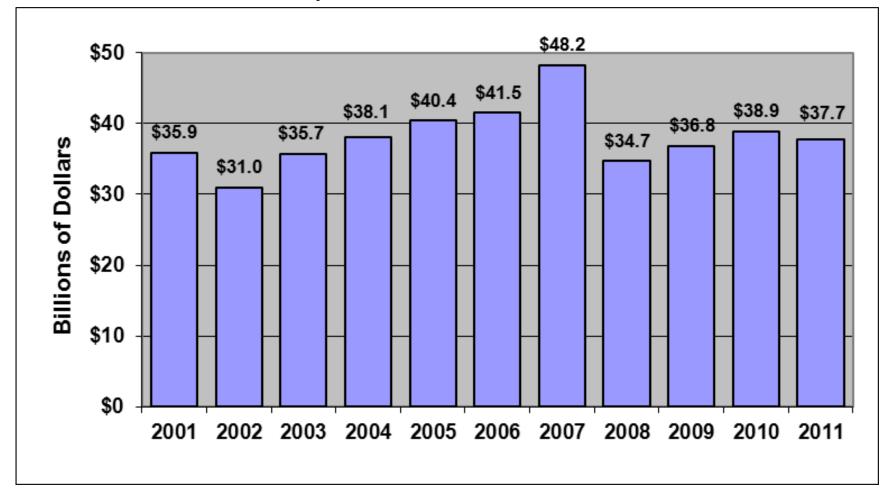
As of December 31, 2011

Market Value

	<u>(In Millions)</u>	
Public School Employees	\$37,665	78.3%
State Employees	9,192	19.1%
State Police	1,030	2.1%
Judges	236	0.5%
TOTAL	\$48,123	100.0%



MPSERS Market Value \$37.7 Billion





MPSERS Contributions and Distributions FY 2011

Contributions

Members \$332.0 Employer 1,156.0

Total Contributions

\$1,488.0

Pension Benefit Distributions

3,942.0

Net

(\$2,454.0)

Equal to (per quarter on average)

(\$613.5)

Or about 7.0% of total market value of fund



MPSERS Asset Allocation

As of December 31, 2011

Asset Allocation By Market Value

(In Millions)

			Target Allocation	
Investment Strategies	12/31/2	2011	Target	Range
Domestic Equity	\$11,464	30.4%	33%	20% - 50%
Alternative Investments	8,268	22.0%	14%	10% - 20%
Fixed Income	5,055	13.4%	16%	10% - 25%
International Equity	4,798	12.7%	16%	10% - 20%
Real Estate	3,922	10.4%	9%	5% - 15%
Short Term	1,640	4.4%	2%	1% - 7%
Real Return & Opport.	1,412	3.7%	4%	0% - 8%
Absolute Return	1,106	3.0%	6%	0% - 12%
TOTAL	\$37,665	100.0%	100%	



MPSERS Total Plan Universe Peer Asset Allocation Comparison

Public Funds (DB) > \$1 Billion (for major asset categories)

	Equities Domestic	Equities Foreign	Fixed Income	Real Estate	Private Equity	Cash Equivalent
5th Percentile	61.90	27.94	42.37	15.91	22.39	31.24
25th Percentile	42.60	18.85	30.19	6.02	13.34	6.76
50th Percentile	35.79	15.50	25.49	3.21	5.32	3.21
75th Percentile	25.68	10.05	19.86	0.04	0.23	1.74
95th Percentile	5.04	0.00	0.00	0.00	0.00	0.01
Total Public School	30.09 55	12.64 66	13.42 90	10.19 11	21.95 (6 4.35 42
I otal Public School	30.0 9 33	12.04 00	13.42 90	10.19 11	Z 1.30 (0 4.00 42



SMRS by Asset Class

As of December 31, 2011

Domestic Equity

\$14.5 Billion in managed funds
32 Strategies
Represents over 1,400 Stocks

Real Estate & Infrastructure

\$5.0 Billion in managed funds
37 Advisors
58 Real Estate Accounts
Over 2,000 properties

Alternative Investments

\$10.5 Billion in managed funds 82 Sponsors 262 Partnerships 3,475 Companies

Absolute and Real Return (and Opportunistic)

\$3.2 Billion in managed funds
4 Strategies
47 Managers



SMRS by Asset Class

As of December 31, 2011

Fixed Income

\$6.5 Billion in managed funds

8 Strategies

Represents Over 2,000 Positions

Short Term Investments

\$2.2 Billion in Managed Funds

International Equity

\$6.1 Billion in managed funds

12 Strategies

Representing 6,300 Stocks

Trust Accounting

Approximately 100,000 transactions annually



Bond Market Environment

	2011	Q4 2011		
	Yield		Yield	
Market	Change	12/31/11	Change	9/30/11
30-Year Treasury	-144 bp	2.90%	-2 bp	2.92%
10-Year Treasury	-142 bp	1.88%	-4 bp	1.92%
5-Year Treasury	-118 bp	0.83%	-12 bp	0.95%
2-Year Treasury	-36 bp	0.24%	-1bp	0.25%
Fed Funds	0 bp	0.25%	0 bp	0.25%



Stock Market Update

	Thru 12/31/11		Thru 9/30/11	
Market	Price Change	12/31/11	Price Change	9/30/11
DJIA	5.53%	12,218	-5.74%	10,913
S&P 500	0.00%	1,258	-10.04%	1,131
NASDAQ	-1.80%	2,605	-8.95%	2,415
BMI-EPAC (USD)	-14.91%	206.2	-17.10%	200.9



S&P 500 – Last 10 Years





MPSERS FUND

Time-Weighted Rate of Return

Public Funds (DB) > \$10 Billion

As of December 31, 2011

	1 Year	5 Years	10 Years
_	Rate	Rate	Rate
TOTAL PLAN	3.3	1.9	5.0
Median - Greater than \$10 Billion	1.9	1.9	5.3



MPSERS FUND Time-Weighted Rate of Return

Funds (DB) > \$10 Billion

As of December 31, 2011

	1 Year	5 Years	10 Years
5th Percentile	8.15	6.15	6.99
25th Percentile	2.47	2.33	6.45
50th Percentile	1.86	1.92	5.27
75th Percentile	0.69	1.08	4.86
95th Percentile	-0.15	0.32	4.43
Total Public School	3.34	1.89	4.98



Time-Weighted Rates of Return

Individual asset classes doing very well on a relative basis

	CY 2	2011
Asset Class	Five Years	One Year
w/Benchmark	Rate	Rate
Total Plan	1.9%	3.3%
Median*	1.9%	1.9%
Domestic Equities	-0.1%	-0.4%
S&P 1500 Index	0.1%	1.8%
International Equities	-4.2%	-12.3%
S&P Developed BMI-EPAC net 75/25	-4.8%	-12.5%
Private Equity	9.1%	15.9%
Alternative Blended Benchmark	3.0%	4.3%

^{*}Comparison universe is the State Street Universe comprised of Public Funds greater than \$10 Billion on the Total Plan level and greater than \$1 Billion for asset classes.



Time-Weighted Rates of Return

	CY 2	CY 2011	
Asset Class	Five Years	One Year	
w/Benchmark	Rate	Rate	
Real Estate	-1.1%	12.9%	
NCREIF Open Fund Index Net	-1.1%	15.0%	
Bonds	7.3%	7.0%	
Barclays Govt/Credit	6.6%	8.7%	
Cash Equivalents	1.1%	0.2%	
30-Day T-Bill	1.2%	0.1%	

^{*}Comparison universe is the State Street Universe comprised of Public Funds greater than \$10 Billion on the Total Plan level and greater than \$1 Billion for asset classes.



Disclaimer



This presentation was given solely for the purpose of explaining the structure and investment process for the State of Michigan Retirement Systems. It should not be interpreted in any way as financial advice.